Pictures
of the Bruce A Calandria and Shield Tank
during fabrication
at Canadian Vickers

photos by
Ken Jay, AECL
1971 - 1973
Figure 2 Endshield lattice tubes

Figure 3 Milling the inside face of the calandria tubesheet
Figure 4  Endshield assembly

Figure 5  Endshield assembly
Figure 6  Endshield assembly
Figure 8  Making the lattice tube to tubesheet weld

Figure 9  Making the lattice tube to tubesheet weld
Figure 10

Figure 11  Inside the endshield, during lattice tube installation
Figure 12  Inside the calandria, looking upwards at the inside top. The four large holes are for the moderator discharge ports, smaller holes are for reactivity control units.
Figure 13  Inside face of calandria tubesheet, bore for calandria tube

Figure 14  Inside the calandria, during calandria tube i
Figure 15 Calandria tube installation.

Figure 16 Calandria tube installation
Figure 17  Calandria assembled, installed in shield tank.

Figure 18  Inside the calandria, looking upwards between columns of calantria tubes. The inside top of the main shell is seen, with holes for reactivity control units.
Figure 19  Section of shield tank being assembled.
Figure 20  Two Bruce shield tanks being assembled. The further one is more advanced – the opening for the calandria has been machined round.
Figure 21 Calandria and shield tank assembly on a barge going through the Welland Canal.

Figure 22 Calandria and shield tank assembly at Bruce, before being moved into the reactor vault.